PATENT COOPERATION TREATY

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INTERNATIONAL SEARCHING AUTHORITY			<u> </u>		
To: CHARLES E. DADSWELL GLAXOSMITHKLINE				PCT	
CORPORATE INTELLEC		Y DEPT.	WE	UTTEN OPINION OF THE	
FIVE MOORE DRIVE, PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709			T .	ONAL SEARCHING AUTHORITY	
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	03 NOV 2009	
Applicant's or agent's file	reference		FOR FURTHER ACTION See paragraph 2 below		
PR60714WO	··-		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
International application N	o. Inte	ernational filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US05/03479		January 2005 (28.01.		30 January 2004 (30.01.2004)	
International Patent Classif	ication (IPC) or bot	th national classificat	tion and IPC		
	/12, 239/42; A61K	31/415, 416, 4418, 5	05 and US CL: 544/3	29, 332; 546/340; 548/309.7, 375.1; 514/275,	
357, 405, 406 Applicant					
SMITHKLINE BEECHAN	A CORPORATION				
1. This opinion contains	indications relating	to the following iten	ns:		
Box No. I	Basis of the opin	nion			
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			entive step and industrial applicability		
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI	Certain documer	nts cited			
Box No. VII	Certain defects i	n the international ap	plication		
Box No. VIII	Certain observat	ions on the internatio	onal application	•	
2. FURTHER ACTIO)N				
International Prelimin	ary Examining A	uthority ("IPEA") e PEA and the chosen	xcept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) lered.	
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/US Date of completion of this opinion Authorized officer					
Name and mailing address Mail Stop PCT, Att	n: ISA/US	•		1 Ca 11 all Amor	
Commissioner for I P.O. Box 1450		29 September	2005 (29.09.2005)	y .	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230				Telephone No. 571-272-1600	

Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.
PCT/US05/03479

Box No. 1 Basis of this opinion								
1. With regard to the language, this opinion has been established on the basis of:								
\boxtimes	the international application in the language in which it was filed							
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).							
2. With inven	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a.	type of material							
	a sequence listing							
	table(s) related to the sequence listing							
ъ.	format of material							
	on paper							
	in electronic form							
c.	time of filing/furnishing							
	contained in the international application as filed.							
	filed together with the international application in electronic form.							
	furnished subsequently to this Authority for the purposes of search.							
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Addit	tional comments:							
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Form PCT/ISA/237(Box No. I) (April 2005)

International application No.

PCT/US05/03479

Box No. III Nou-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
Claims Nos. 4.6-8 and 10-14
because:
the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos. 4.6-8 and 10-14 are so unclear that no meaningful opinion could be formed (specify):
the claims are improper multiple dependent claims under PCT Rule 6.4(a)
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
no international search report has been established for said claims Nos.
a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.
orm PCT/ISA/237 (Box No. III) (April 2005)

International application No. PCT/US05/03470

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-3, 5, 9	YES			
	Claims NONE	NO			
Inventive step (IS)	Claims 1-3, 5, 9	YES			
	Claims NONE	NO			
Industrial applicability (IA)	Claims 1-3, 5, 9	YES			
	Claims NONE				
2. Citations and explanations:					

Claims 1-3, 5 and 9 meet the criteria of novelty and inventive step set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instantly claimed compounds and/or methods of use of the compounds, see US 5,863,924.

Claims 1-3, 5 and 9 meet the criteria set out in PCT Article 33(4), because the compounds are disclosed to be useful as pharmaceutical agents, and thus meet the criteria of industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

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INTERNATION	NAL SEARC	HING AUTH	ORITY		WIPO POT		
INTERNATIONAL SEARCHING AUTHORITY To: CHARLES E. DADSWELL GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY DEPT.			ERTY DEPT.	PCT			
FIVE MOORE DRIVE, PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43bis.1)			
				Date of mailing (day/month/year)			
Applicant's or PR60714WO	agent's file fo	eference		FOR FURTHER ACTION See paragraph 2 below			
International a	pplication No	•	International filing date	(day/month/year) Priority date (day/month/year)			
PCT/US05/03			28 January 2005 (28.01.		30 January 2004 (30.01.2004)		
International P	atent Classifi	cation (IPC)	or both national classificat	ion and IPC			
357, 405, 406	213/56, 231/1	2, 239/42; A	61K 31/415, 416, 4418, 50	05 and US CL: 544/3	29, 332; 546/340; 548/309.7, 375.1; 514/275,		
Applicant							
SMITHKLINE	BEECHAM	CORPORAT	ΠΟΝ				
1. This opini	on contains ir	ndications rel	ating to the following item	 ıs:			
Во	x No. I	Basis of the	opinion				
Во	x No. II	Priority			•		
			shment of opinion with re	gard to novelty, inve	gard to novelty, inventive step and industrial applicability		
Box No. IV Lack of unity of invention			ty of invention		•	ı	
Box No. V Reasoned statement under Rule 43bis. applicability; citations and explanation							
Во	x No. VI	Certain doc	uments cited		•		
Во	x No. VII	Certain defe	ects in the international ap	plication			
Bo	x No. VIII	Certain obs	ervations on the internatio	nal application	•		
	ER ACTIO						
Internation Authority	nal Prelimina other than thi	ry Examinin is one to be t	g Authority ("IPBA") ex	ccept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses at the International Bureau under Rule 66.1 bis (b) ered.	n	
If this opinion is, as provided above, considered to be a written opinion of the IPBA, the applicant is invited to submit to the IPBA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3. For further	r details, see n	otes to Form	PCT/ISA/220.				
Name and mai			S Date of comple	tion of this opinion	Authorized officer	•	
Comm	Stop PCT, Attn: nissioner for Par Nox 1450		29 September 2	2005 (29.09.2005)	Deepak Rao Jamber Shirt	سب	
Alexa	ndria, Virginia				Telephone No. 571-272-1600	1	
acsimile No. (37 (cover she		05)		L	لـــ	

International application No.
PCT/US05/03479~

Box No. I Basis of this opinion								
١	regard to the language, this opinion has been established on the basis of:							
	the international application in the language in which it was filed							
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2. With inven	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
а.	type of material							
]	a sequence listing							
·	table(s) related to the sequence listing							
b.	format of material							
	on paper							
·	in electronic form							
c.	time of filing/furnishing							
	contained in the international application as filed.							
1	filed together with the international application in electronic form.							
	furnished subsequently to this Authority for the purposes of search.							
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Addit	tional comments:							
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Form PCT/ISA/237(Box No. I) (April 2005)

International application No.

PCT/US05/03479

Box N	o. III Nou-establishment of opinion with regard to novelty, inventive step and industrial applicability
i ne	questions whether the claimed invention appears to be novel to involve an inventive step (to be now the first to be now the fi
ina	strially applicable have not been examined in respect of:
느	the entire international application
\boxtimes	claims Nos. <u>4.6-8 and 10-14</u>
beca	use:
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):
\boxtimes	the description, claims or drawings (indicate particular elements below) or said claims Nos. 4.6-8 and 10-14 are so unclear that no meaningful opinion could be formed (specify):
	the claims are improper multiple dependent claims under PCT Rule 6.4(a)
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
	no international search report has been established for said claims Nos
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
LJ :	See Supplemental Box for further details.
PCT/I	SA/237 (Box No. III) (April 2005)

International application No. PCT/US05/034/70

Box No. V Reasoned statement under applicability; citations and of	Rule 43 bis.1(a)(i) with regard to novelty, invenexplanations supporting such statement	tive step or industrial
1. Statement		
Novelty (N)	Claims <u>1-3, 5, 9</u>	YES
	Claims NONE	
Inventive step (IS)	Claims 1-3, 5, 9	YES
	Claims NONE	NO
Industrial applicability (IA)	Claims 1-3, 5, 9	YES
	Claims NONE	
or fairly suggest the instantly claimed compount. Claims 1-3, 5 and 9 meet the criteria set out in 1	and inventive step set out in PCT Article 33(2)-(3), beds and/or methods of use of the compounds, see US 5,8 PCT Article 33(4), because the compounds are disclose pplicability because the subject matter claimed can be t	363,924. I to be useful as pharmaceutical
•		
•		